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RTS-800 Dough Temperature Monitoring System

W. H. Cooke & Co., Inc.
6868 York Road
Hanover, PA 17331

Phone: 717-630-2222

Fax: 717-637-9999

Table of Contents

Introduction	.	.	.	.	.	.	.	.	4
Installation	.	.	.	.	.	.	.	.	4
Mounting/Wiring	.	.	.	.	.	.	.	.	4
Calibration	.	.	.	.	.	.	.	.	5
Specifications	.	.	.	.	.	.	.	.	7
Errors/Troubleshooting	.	.	.	.	.	.	.	.	8

Thank you for purchasing the Cooke model RTS-800 dough temperature monitoring system. The system utilizes a heavy duty type T thermocouple and a digital display that has been specially selected for this application and it's ease of use.

Installation:

Step 1

Mount the control cabinet within 12 ft. of dough trough or mixer.

Step 2

Plug the 120 Volt line cord into a receptacle or remove it and hard wire the system to your 120 Volt power supply.

Step 3

Insert probe into dough and observe reading. You should see the probe fully respond within 60 seconds. A faster responding version is available (not as rugged). Order part # RT-602-FR.

Note: Should you believe that the display reading is not accurate, it is possible to recalibrate the system.

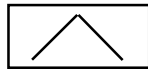
Calibrating the System

Using a calibrated thermometer, compare it's reading to the RTS-800 system reading.

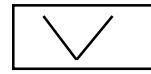
To modify the control box reading, follow the instructions below. The keys used in calibrating the system:



Select



Increment



Decrement

1. Locate the SEL key (the key on the far left of the control display). Press and hold this button continuously for approximately 7 seconds until **PUOF** appears on the display.
2. Press the SEL key again once.
3. Now press increment or decrement until you reach the offset value you desire.
4. Now continuously hold down the SEL key until you see the red LED beside SV (set point) light up, then release. Then press SEL again to read the corrected temperature.
5. Allow approximately 30 seconds for the temperature reading to stabilize.

RT-811 Digital Temperature Display Specifications

Input Impedance for thermocouple

- 1 Megohm or more

Sensor Break Protection

- Protection mode configurable

External Resistance

- 100 ohms max.

Common Mode Rejection

- 140dB

Sample Rate

- 10 times/second / adjustable

POWER

Rating

- 85-264VAC.50/60 Hz

Consumption

- Less than 5VA

Protection

- NEMA 4X / IEC IP66 (front panel)

Operating Temperature

- -10 to 50°C / -14 to 122 °F

Humidity

- 0 to 90% RH (non-condensing)

Fuse for display

- Lamp fuse, Cooke part # P106

Insulation

- 20M ohms min. (500 VDC)

Weight

- 100 grams

Troubleshooting Guide

Possible Symptoms and Solutions

1. Symptom: LED display does not light.
Probable causes: Instrument is not receiving power.
Solutions: - Check power supply for 120 VAC @ terminals 13 & 14.
- Check fuse #13 in control box.
2. Symptom: LED display reads "UUUU"
Probable causes: - Input signal is not present.
- Bad connection or open sensor.
Solutions: - Check & tighten all connections between sensor and terminal strip
- If problem persists, replace sensor.